

**Patent Claims**

1. An antimicrobial, water-insoluble silicate glass powder, wherein the starting glass comprises

SiO <sub>2</sub>	30 - 70 wt.%
NaO <sub>2</sub>	0 - 1 wt.%
K <sub>2</sub> O	0 - 1 wt.%
MgO	5 - 40 wt.%
CaO	0 - 40 wt.%
SrO	0 - 40 wt.%
BaO	0 - 40 wt.%
Al <sub>2</sub> O <sub>3</sub>	0 - 25 wt.%
P <sub>2</sub> O <sub>5</sub>	0 - 20 wt.%
B <sub>2</sub> O <sub>3</sub>	0 - 20 wt.%,

characterized in that the sum of the alkali oxide contents is less than 1.5 wt.% in the total composition of the starting glass and the starting glass further contains, as biocidally active components, ions or atoms of the elements Ag, Zn, Cu, Ce, Te, or I with total proportions of < 2.5 wt.%.

2. An antimicrobial, water-insoluble silicate glass,  
characterized in that

the biocidally active components comprise one or more of the following components:

Ag<sub>2</sub>O, CuO, Cu<sub>2</sub>O, TeO<sub>2</sub>, ZnO, CeO<sub>2</sub>, I,

wherein the sum of these components is greater than 0.1 wt.%, but less than 2.5 wt.%.

3. The antimicrobial, water-insoluble silicate glass powder according to claim 1,  
further characterized in that  
the size of the glass particles is  $\leq 100 \mu\text{m}$ .